Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A wireless network system, comprising

a plurality of access elements for wireless communication with at least one or more remote client elements and for communication with a central control element:

a central control element for supervising said access elements, wherein the central control element is operative to manage and control the wireless connections between the access elements and corresponding remote client elements,

wherein the central control element is further operative to

detect a session initiation message associated with a first remote client element, the session initiation message corresponding to a session between the first remote client element and an end system,

process the session initiation message to determine one or more Quality-of-Service (QoS) parameters, wherein one of the one or more QoS parameters is an allocation of wireless bandwidth resources of an access element:

associate the one or more QoS parameters to the session corresponding to the session initiation message, and

forward the session initiation message to a session initiation protocol server for processing of the session initiation message;

transmit the one or more QoS parameters to a first access element to which the first remote client element is associated, and

wherein the first access element is operative to

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maintain wireless connections with one or more remote client elements;

reserve, wireless bandwidth of the first access element for the session

according to the allocation of wireless bandwidth of the QoS parameter transmitted by the

central control element.

2. (original) The system of claim 1 further comprising a computer network, wherein the

central control element is coupled to the computer network, and wherein the central

control element is operative to

establish a tunnel with each access element for transmission of wireless traffic

associated with corresponding remote client elements, and

bridge network traffic between the computer network and a remote client element

through a tunnel with a corresponding access element.

3. (original) The system of claim 2 wherein the access elements are each connected to the

central control element via a direct access line.

4. (original) The system of claim 2 wherein the access elements are each operably coupled

to the computer network.

5. (currently amended) The system of claim 1 wherein the central control element, in

response to the handoff of the remote client element from the first access element to a

second access element, is further operative to transmit the QoS policy parameter defining

the allocation of wireless bandwidth to the second access element.

6. (currently amended) The system of claim 1 wherein the central control element is

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further operative to revoke previously granted QoS guarantees provided to at least one $\,$

lower priority session, if enforcement of the QoS policy parameter defining the allocation

of wireless bandwidth with all previously configured QoS parameters policies exceeds a

limit.

7. (original) The system of claim 6 wherein the limit is the maximum bandwidth

associated with the access element.

8. (original) The system of claim 6 wherein the limit is a configurable maximum

bandwidth limit.

9. (original) The system of claim 6 wherein the limit is a maximum number of sessions.

10. (currently amended) The system of claim 1 further comprising a SIP session initiation

protocol (SIP) server including an application layer authentication mechanism;

and wherein the central control element is operative to

maintain security states for remote client elements detected by the

access elements,

apply, at the access elements, a security mechanism to control access

to the wireless connections to remote client elements, wherein operation of the security

mechanism is based on the security states of the remote client elements, and

adjust the security state associated with a remote client element based

on its interaction with the authentication mechanism associated with the SIP server.

11. (original) The system of claim 10 wherein the central control element is operative to

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deny connections with an access element to a wireless client element that fails to properly

authenticate with the authentication mechanism of the SIP server.

12. (currently amended) A method for dynamically configuring a QoS mechanism for

wireless sessions, comprising

receiving, at a wireless network access device, a session initiation message

associated with a wireless client remote from the wireless network access device, the

session initiation message corresponding to a session between the wireless client and an

end system;

transparently processing the session initiation message to determine a Quality-of-

Service (QoS) parameter, wherein the QoS defines an allocation of wireless bandwidth

resources provided by the wireless network access device,

associating the QoS parameter to the session corresponding to the session initiation

message,

forwarding the session initiation message $\underline{\text{to a session initiation protocol server for}}$

processing; and

enforcing, at the wireless network access device, the QoS parameter on data flows

associated with the session by reserving wireless bandwidth for the session according to

the allocation of wireless bandwidth resources.

13. (new) The method of claim 12 further comprising

monitoring for a response to the session initiation message forwarded to the session

initiation protocol server; and

deallocating the wireless bandwidth reserved for the session, if the response rejects

the session.

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14. (new) The method of claim 12 further comprising

storing, responsive to detection of the session initiation message, the session

initiation message forwarded to the session initiation protocol server;

monitoring for a response accepting the session corresponding to the session

initiation message forwarded to the session initiation protocol server;

and wherein the enforcing the QoS parameter is conditioned on the response

accepting the session initiation message.

15. (new) The system of claim 1 wherein the central control element is operative to

monitor for a response to the session initiation message forwarded to the session

initiation protocol server;

transmit, if the response rejects the session corresponding to the session initiation

message, control signals to cause the first access element to discard the QoS parameters

transmitted by the central control element in response to the session initiation message.

16. (new) The system of claim 1 wherein the central control element is operative to

store, responsive to detection of the session initiation message, the session initiation

message forwarded to the session initiation protocol server;

monitor for a response accepting the session corresponding to the session initiation

message forwarded to the session initiation protocol server;

and wherein transmission of the one or more QoS parameters to the first access

element is conditioned on the response accepting the session initiation message.